

**Tetra Tech, Inc.**

4213 State Street, Suite 100  
 Santa Barbara, CA 93110-2847  
 VOICE (805) 681-3100 FAX (805) 681-3108

Project: **Vandenberg Air Force Base**Log of Well No. **27-MW-9**
 Location: **OU4, Site 27, approximately 130 ft west of  
 well 27-MW-5 and 1,200 ft east of Altair Road.**

Date Started: 9/7/95 Completed: 9/8/95

 Logged By: R. J. Elliot Checked By: **J. R. Steele,  
 R.G., C.E.G., C.H.G.**
Drilled By: T. Blakeboro, S/G Testing **J.R. Steele, R.G. & S.H.S.**

Drilling Equipment: CME 75, 8 inch &amp; 10 inch HSA

Sampling Equipment: 2-inch I.D. Split Spoon

GS Elev.: 395.3 ft above MSL TD: 101.0 ft bgs

4" PVC Bank Casing: from 0 ft bgs to 75 ft bgs

0.01" Screening Casing: from 75 ft bgs to 95 ft bgs

Bentonite/Cement Grout: from 12 ft bgs to 69.5 ft bgs

Bentonite Transitional Seal: from 69.5 ft bgs to 72.5 ft bgs

2/12 Sand Filter Pack: from 72.5 ft bgs to 97 ft bgs

TOC Elev.: 396.66 ft above MSL

Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
5	sand, dark brown (7.5YR 3/2), fine grained, moderately graded, rounded, very loose, dry, with few silt, trace fine gravel, Orcutt Formation.		SP-SM						Start drilling 0715.
	dark yellowish brown (10YR 4/4), medium dense slightly moist.					8 7 4	100	1.6/ 2.6	
10	silty sand, brown (7.5YR 4/3), fine grained, moderately graded, rounded, dense, slightly moist, with little silt, slight iron staining, Orcutt Formation.		SM			4 12 38	100	0/0	
15	yellowish brown (10YR 5/6), subrounded, very dense, root casts.					24 50/5"	100	0.9/ 2.4	
20			SP-SM			17			

79.5 ft bgs ▼ Groundwater depth during drilling 77.5 ft bgs ▼ Groundwater depth 9/19/96 after well development on: 6/10/96

TC Number: A208-09

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Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
	sand, yellowish brown (10YR 5/6), fine grained, moderately graded, subrounded, very dense, slightly moist, with few silt, Orcutt Formation.		SP-SM			28 34	100	1.2/ 4.4	
25	sand, yellowish brown (10YR 5/6), fine grained, moderately graded, subrounded, very dense, slightly moist, with trace silt, Orcutt Formation.		SP			22 33 44	100	2.6/ 6.6	
30									
35	rounded with trace very fine grained black sand grains.					18 20 32	100	0/0	
40									
45						22			

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Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Strip	REMARKS
45	yellowish brown (10YR 5/4), subrounded.		SP			40 50	100	0/0	
50									
55	yellowish brown (10YR 5/6), rounded.					18 28 50/ 5.5"	100	0/0	
60									
65	slightly moist to moist.					17 27 37	100	0/0	
70						13			

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Project: **Vandenberg Air Force Base**Log of Well No. **27-MW-9**Location: **OU4, Site 27, approximately 120 ft west of well 27-MW-5 and 1,200 ft east of Altair Road.**

Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
70	pale brown (10YR 6/3), poorly graded, subrounded.		SP			26 39	100	0/0	
75	slightly moist.					20 38 50	100	0/0	
80	<u>clayey sand</u> , yellowish brown (10YR 5/8), fine grained, moderately graded, rounded, medium dense, very moist, with some clay, Orcutt Formation.		SC			6 6 13	100	0/0	
	<u>clay</u> , gray (10YR 5/1), stiff, very moist, Orcutt Formation.		CL						
	<u>clayey sand</u> , light brown (7.5YR 6/3), fine grained, rounded, moderately graded, very moist, with little clay and few rounded gravel and few silt, Orcutt Formation.		SC						
85	grayish brown (10YR 5/2), mostly fine grained sand, medium dense, wet, with some clay and few angular coarse sand grains, no gravel.					4 8 10	100	0/0	
90	few rounded fine gravel.					7 11 15	100	0/0	
95						4			

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Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
95	very dark grayish brown (10YR 3/2), subrounded, very moist to wet, with few silt and trace fine gravel.		SC			6 8	100	0/1.1	TD of 10-inch auger 97 ft.  T.D. of 8-inch auger 99.5 ft with sampler driven to 101.0 ft. Bottom 4 ft of borehole filled with cuttings during reaming with 10-inch auger. End drilling 1545. Well construction completed 9/8/95.
100	yellowish brown (10YR 5/4), moist.					7 12 33	100	0/1.6	
105									
110									
115									
120									